

CPC**COOPERATIVE PATENT CLASSIFICATION****B65C**

LABELLING OR TAGGING MACHINES, APPARATUS, OR PROCESSES (nailing or stapling in general B25C, B27F; applying labels for packaging purposes B65B; labels, name-plates G09F){(series-printing machines B41L; containers for the storage or transport of packages B65D)}

NOTE

In this subclass, the following term is used with the meaning indicated:
- "labels" covers also decalcomanias, stamps or the like

B65C 1/00

Labelling flat essentially-rigid surfaces (labelling of fabrics [B65C 5/00](#))

- B65C 1/02 . Affixing labels to one flat surface of articles, e.g. of packages, of flat bands
- B65C 1/021 .. {the label being applied by movement of the labelling head towards the article ([B65C 1/028](#) takes precedence)}
- B65C 1/023 ... {and being supplied from a stack ([removing labels from stacks B65C 9/12](#))}
- B65C 1/025 .. {the label being picked up by the article to be labelled, i.e. the labelling head remaining stationary}
- B65C 1/026 ... {and the article being moved out of its normal conveyance path towards the labelling head ([B65C 1/028](#) takes precedence)}
- B65C 1/028 .. {the labelling head and the article both being moved towards each other}
- B65C 1/04 . Affixing labels, e.g. wrap-around labels, to two or more flat surfaces of a polyhedral article
- B65C 1/042 .. {using two or more applicators, e.g. cooperating rollers or brushes}
- B65C 1/045 ... {acting one after the other}
- B65C 1/047 .. {by rotating the article about one of its axes}

B65C 3/00

Labelling other than flat surfaces (of fabrics [B65C 5/00](#))

- B65C 3/02 . Affixing labels to elongated objects, e.g. wires, cables, bars, tubes
- B65C 3/04 .. Applying bands or labels to cigars or cigarettes {([bands for cigars or cigarettes A24D 1/16](#))}
- B65C 3/06 . Affixing labels to short rigid containers
- B65C 3/065 .. {by placing tubular labels around the container ([applying preformed tubular sheathings of plastics in general B29C 63/18](#); [applying protective covers to closures B67B 5/03](#))}
- B65C 3/08 .. to container bodies {([B65C 3/065](#) takes precedence)}
- B65C 3/10 ... the container being positioned for labelling with its centre-line horizontal
- B65C 3/105 {the machine being hand- or foot driven}
- B65C 3/12 by rolling the labels onto cylindrical containers, e.g. bottles

- B65C 3/14 . . . the container being positioned for labelling with its centre-line vertical
- B65C 3/145 {the machine being hand- or foot driven}
- B65C 3/16 by rolling the labels onto cylindrical containers, e.g. bottles
- B65C 3/163 {where the label is of the wrap-around type}
- B65C 3/166 {the label being shrunken after application}
- B65C 3/18 . . to container necks {(B65C 3/065 takes precedence)}
- B65C 3/20 . . to bottle closures (applying closures or capsules to bottles B67B)
- B65C 3/22 . . . Affixing metal foil coverings
- B65C 3/24 . . . Affixing labels indicating original state of bottle snap or screw closure

- B65C 3/26 . . Affixing labels to non-rigid containers, e.g. bottles made of polyethylene, boxes to be inflated by internal air pressure prior to labelling

- B65C 5/00** **Labelling fabrics or comparable materials or articles with deformable surface, e.g. paper, fabric rolls, stockings, shoes** (affixing labels to non-rigid containers B65C 3/26; by sewing D05B){(applying marks during shoe manufacture A43D 95/14; marking textile materials by attaching tags D06H 1/04)}

- B65C 5/02 . . using adhesives
- B65C 5/04 . . . thermo-activatable adhesives

- B65C 5/06 . . using staples {(man-operated portable stapling tools B25C 5/00; permanently attaching together sheets B42B 4/00)}

- B65C 7/00** **Affixing tags** (in combination with filling of tea bags B65B 29/04){(multi-step processes for making labels or tags B31D 1/02)}

- B65C 7/001 . . {using pins having at least one sharp pointed end}

- B65C 7/003 . . {using paddle-shaped plastic pins (using plastic pins for affixing buttons to garments A41H 37/008)}
- B65C 7/005 . . . {Portable tools}
- B65C 7/006 {electrically actuated}
- B65C 7/008 {fluid-actuated}

- B65C 9/00** **Details of labelling machines or apparatus** {(attaching articles to carriers B65B 15/00; cards of samples G09F 5/04)}

- B65C 9/0006 . . {Removing backing sheets}

- B65C 9/0015 . . {Preparing the labels or articles, e.g. smoothing, removing air bubbles}

- B65C 9/0062 . . {Interchangeable modules, e.g. applicator heads with label magazines and glue rollers}

- B65C 9/0065 . . {Cutting tubular labels from a web}

- B65C 9/02 . . Devices for moving articles, e.g. containers, past labelling station

- B65C 9/04 . . . having means for rotating the articles
- B65C 9/045 . . . {adapted for accomodating articles of different diameters, e.g. for adapting the program of rotation to the diameter of the articles}

- B65C 9/06 . . . Devices for presenting articles in predetermined attitude or position at labelling station
- B65C 9/062 . . . {for orienting bottles having swing stoppers, i.e. by means responsive to the position of the swing stoppers}
- B65C 9/065 . . . {for orienting articles having irregularities in their shape, the irregularities being detected by mechanical means}
- B65C 9/067 . . . {for orienting articles having irregularities, e.g. holes, spots or markings, e.g. labels or imprints, the irregularities or markings being detected}

- B65C 9/08 . . . Label feeding
- B65C 9/10 . . . Label magazines
- B65C 9/105 . . . {Storage arrangements including a plurality of magazines}
- B65C 9/12 . . . Removing separate labels from stacks (for printing B41F; separating articles from piles in general B65H){ multi-step processes for making labels or tags [B31D 1/02](#); for printing B41F)
- B65C 9/14 . . . by vacuum
- B65C 9/16 . . . by wetting devices
- B65C 9/18 . . . Label feeding from strips, e.g. from rolls
- B65C 9/1803 . . . {the labels being cut from a strip}
- B65C 9/1807 {and transferred directly from the cutting means to an article}
- B65C 9/1811 {the transfer involving heating means}
- B65C 9/1815 {and transferred by suction means}
- B65C 9/1819 {the suction means being a vacuum drum}
- B65C 9/1823 {the transfer involving heating means, e.g. heat activated glue-coating of the label}
- B65C 9/1826 { the suction means being a movable vacuum arm or pad}
- B65C 9/183 {and transferred by gripping means or feeding rollers}
- B65C 9/1865 . . . {the labels adhering on a backing strip}
- B65C 9/1869 {and being transferred directly from the backing strip onto the article}
- B65C 9/1873 {the transfer involving heating means, e.g. for decals}
- B65C 9/1876 {and being transferred by suction means}
- B65C 9/188 {the suction means being a vacuum drum}
- B65C 9/1884 {the suction means being a movable vacuum arm or pad}
- B65C 9/1892 . . . {Spools or cassettes for strips (in general [B65H 75/00](#))}
- B65C 9/1896 . . . { the labels being torn or burst from a strip}

- B65C 9/20 . . . Gluing the labels or articles
- B65C 9/22 . . . by wetting, e.g. by applying liquid glue or a liquid to a dry glue coating
- B65C 9/2204 . . . {using spraying means}
- B65C 9/2208 {Applying the liquid on the article}
- B65C 9/2213 {Applying the liquid on the label}
- B65C 9/2217 {discretely, i.e. several points or strips or interrupted films}

- B65C 9/2221 {continuously, i.e. an uninterrupted film}
- B65C 9/2226 . . . {using manipulator arms}
- B65C 9/223 {Applying the liquid on the article}
- B65C 9/2234 {Applying the liquid on the label}
- B65C 9/2239 {discretely, i.e. several points or strips or interrupted films}
- B65C 9/2243 {continuously, i.e. an uninterrupted film}
- B65C 9/2247 . . . {using liquid rollers or bands}
- B65C 9/2252 {Applying the liquid on the article}
- B65C 9/2256 {Applying the liquid on the label}
- B65C 9/226 { discretely, i.e. several points or strips or interrupted films}
- B65C 9/2265 {continuously, i.e. an uninterrupted film}
- B65C 9/2269 {Means for controlling the liquid film on the rollers}
- B65C 9/2273 . . . {using wipers, pallets or segments ([B65C 9/2226](#) takes precedence)}
- B65C 9/2278 {Applying the liquid on the article}
- B65C 9/2282 {Applying the liquid on the label}
- B65C 9/2286 {discretely, i.e. several points or strips or interrupted films}
- B65C 9/2291 {continuously, i.e. an uninterrupted film}
- B65C 9/24 . . . by heat
- B65C 9/25 . . . by thermo-activating the glue

- B65C 9/26 . . . Devices for applying labels
- B65C 9/262 . . . {manually operable}
- B65C 9/265 . . . {specially adapted for compact discs}
- B65C 9/28 . . . Air-blast devices
- B65C 9/30 . . . Rollers
- B65C 9/32 . . . Cooperating rollers between which articles and labels are fed
- B65C 9/34 . . . Flexible bands
- B65C 9/36 . . . Wipers; Pressers

- B65C 9/38 . . . Label cooling or drying

- B65C 9/40 . . . Controls; Safety devices
- B65C 9/42 . . . Label feed control
- B65C 9/44 . . . by special means responsive to marks on labels or articles ([feed control in wrapping B65B](#))

- B65C 9/46 . . . Applying date marks, code marks, or the like, to the label during labelling
(manually-controlled or operable apparatus having printing equipment [B65C 11/02](#);
ticket printing and issuing [G07B 1/00](#)){[apparatus for ticket validating or cancelling G07B 11/00](#)};

- B65C 11/00** **Manually-controlled or manually-operable label dispensers, e.g. modified for the application of labels to articles** (special furniture, fittings, or accessories for shops, storehouses, bars, or the like [A47E](#); for paper napkins, for toilet paper [A47K](#); for playing cards [A63F](#); movable-strip writing or reading apparatus [B42D 19/00](#); adhesive tape

dispensers [B65H 35/07](#); dispensers for tickets [G07B](#); coin-operated dispensers for stamps [G07F](#) {(dispensing devices for pamphlets from vehicles [G09F 21/22](#))}

- B65C 11/002 . {modified for the application of labels to articles}
- B65C 11/004 .. {label feeding from strips}
- B65C 11/006 . {using electrical or electro-mechanical means ([B65C 11/0289](#) and [B65C 11/066](#) take precedence)}
- B65C 11/008 . {using pneumatic means ([B65C 11/0294](#) and [B65C 11/068](#) take precedence)}
- B65C 11/02 . having printing equipment
- B65C 11/0205 .. {modified for the application of labels to articles}
- B65C 11/021 ... {label feeding from strips}
- B65C 11/0215 {Labels being adhered to a web}
- B65C 11/0221 {Advancing the web by friction}
- B65C 11/0226 {electrically driven}
- B65C 11/0231 {by actuating a handle manually}
- B65C 11/0236 {Advancing the web by a cog wheel}
- B65C 11/0242 {electrically driven}
- B65C 11/0247 {by actuating a handle manually}
- B65C 11/0252 {Advancing the web by grippers}
- B65C 11/0257 {electrically driven}
- B65C 11/0263 {by actuating a handle manually}
- B65C 11/0268 {Advancing the web by winding it up}
- B65C 11/0273 {electrically driven}
- B65C 11/0278 {by actuating a handle manually}
- B65C 11/0284 {Linerless labels}
- B65C 11/0289 .. {using electrical or electro-mechanical means ([B65C 11/0205](#) takes precedence)}
- B65C 11/0294 .. {using pneumatic means}
- B65C 11/04 . having means for moistening the labels
- B65C 11/043 .. {modified for the application of labels to articles}
- B65C 11/046 ... {label feeding from strips}
- B65C 11/06 . having means for heating thermo-activatable labels
- B65C 11/062 .. {modified for the application of labels to articles}
- B65C 11/064 ... {label feeding from strips}
- B65C 11/066 .. {using electrical or electro-mechanical means}
- B65C 11/068 .. {using pneumatic means}

B65C 2009/00 **Details of labelling machines or apparatus** {(attaching articles to carriers [B65B 15/00](#);

cards of samples [G09F 5/04](#))}

- B65C 2009/0003 . Use of RFID labels
- B65C 2009/0006 . {Removing backing sheets}
- B65C 2009/0009 .. by means of a peeling tip
- B65C 2009/0012 ... the peeling tip having a variable radius
- B65C 2009/0015 . {Preparing the labels or articles, e.g. smoothing, removing air bubbles}
- B65C 2009/0018 .. Preparing the labels
- B65C 2009/0021 ... for temporary attachment to transfer means or to the article
- B65C 2009/0025 by electrostatical charge
- B65C 2009/0028 ... for activating the glue
- B65C 2009/0031 by radiation
- B65C 2009/0034 IR
- B65C 2009/0037 UV
- B65C 2009/004 electron beam
- B65C 2009/0043 laser
- B65C 2009/0046 by hot air
- B65C 2009/005 ... for reorienting the labels
- B65C 2009/0053 by rotation
- B65C 2009/0056 ... removing overlapping labels from backing webs
- B65C 2009/0059 .. Preparing the articles
- B65C 2009/0068 . Machines or apparatus used with gas bottles
- B65C 2009/0071 . Details of glueing devices
- B65C 2009/0075 .. Constructional details of glueing rollers
- B65C 2009/0078 .. Constructional details of doctor blades
- B65C 2009/0081 . Means for forming a label web buffer, e.g. label web loop
- B65C 2009/0084 . Means for reversing the transport of label or web for repositioning the next to be dispensed label, e.g. printing
- B65C 2009/0087 . Details of handling backing sheets
- B65C 2009/009 .. Devices for removing remaining labels from backing strips
- B65C 2009/0093 .. Devices switching between a peelable and a non peelable position
- B65C 2009/0096 .. Rotation of the backing sheet about its longitudinal axis by passing the backing sheet over a roller
- B65C 2009/08 . Label feeding
- B65C 2009/18 .. Label feeding from strips, e.g. from rolls
- B65C 2009/1803 ... {the labels being cut from a strip}
- B65C 2009/1834 Details of cutting means

- B65C 2009/1838 Cutting drum
- B65C 2009/1842 Temperature control
- B65C 2009/1846 Laser
- B65C 2009/1849 Fluid-jet
- B65C 2009/1853 Electrical resistance
- B65C 2009/1857 two co-acting knives
- B65C 2009/1861 whereby one knife remains stationary
- B65C 2009/1865 ... {the labels adhering on a backing strip}
- B65C 2009/1888 Overlapping labels

- B65C 2009/20 . Gluing the labels or articles
- B65C 2009/22 .. by wetting, e.g. by applying liquid glue or a liquid to a dry glue coating
- B65C 2009/2295 ... Applying several tracks of glue or liquid

- B65C 2009/26 . Devices for applying labels
- B65C 2009/262 .. {manually operable}
- B65C 2009/265 ... {specially adapted for compact discs}
- B65C 2009/267 for non-circular shaped compact discs

- B65C 2009/40 . Controls; Safety devices
- B65C 2009/401 .. for detecting the height of articles to be labelled
- B65C 2009/402 .. for detecting properties or defects of labels
- B65C 2009/404 ... prior to labelling
- B65C 2009/405 reading information before printing and applying a label
- B65C 2009/407 ... after labelling
- B65C 2009/408 .. reading information before printing and applying a label

B65C 2201/00 **Portable tools for labelling or tagging, associated with holders when in use**

B65C 2210/00 **Details of manually controlled or manually operable label dispensers**

- B65C 2210/0002 . Data entry devices
- B65C 2210/0005 .. Readers
- B65C 2210/0008 ... Optical scanners
- B65C 2210/001 ... Electromagnetical scanners
- B65C 2210/0013 .. Keyboards; Touchscreens
- B65C 2210/0016 ... removable
- B65C 2210/0018 ... permanent
- B65C 2210/0021 .. Floppies; Smartcards
- B65C 2210/0024 .. Hosts

- B65C 2210/0027 . . . permanent connection
- B65C 2210/0029 via cable
- B65C 2210/0032 via RF
- B65C 2210/0035 . . . storing into memory

- B65C 2210/0037 . Printing equipment
- B65C 2210/004 . . using printing heads
- B65C 2210/0043 . . . electrically actuated
- B65C 2210/0045 . . . mechanically actuated, e.g. by a hand lever
- B65C 2210/0048 Means for controlling the force of the printing head
- B65C 2210/0051 . . . Means for applying print to labels
- B65C 2210/0054 Ribbons
- B65C 2210/0056 Inking rollers
- B65C 2210/0059 . . . using several printing heads
- B65C 2210/0062 . . . using color printing heads
- B65C 2210/0064 . . using thermosensitive labels

- B65C 2210/0067 . . accomodating labels of different sizes

- B65C 2210/007 . . Cutting equipment

- B65C 2210/0072 . . Specific details of different parts
- B65C 2210/0075 . . Applying rollers
- B65C 2210/0078 . . Peeling devices
- B65C 2210/0081 . . web brakes
- B65C 2210/0083 . . counters
- B65C 2210/0086 . . platens
- B65C 2210/0089 . . housings
- B65C 2210/0091 . . correction label applying devices
- B65C 2210/0094 . . Label sensing devices
- B65C 2210/0097 . . Predetermining the label length